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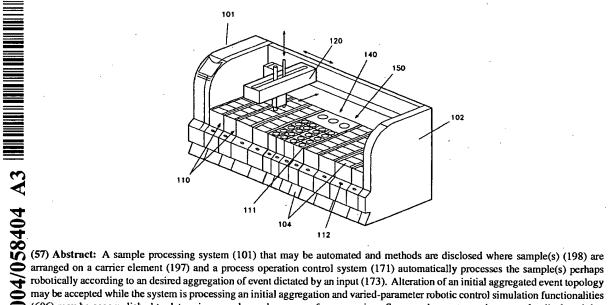
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[Continued on next page]

(54) Title: ENHANCED SCHEDULING SAMPLE PROCESSING SYSTEM AND METHODS OF BIOLOGICAL SLIDE PRO-



may be accepted while the system is processing an initial aggregation and varied-parameter robotic control simulation functionalities (606) may be accomplished to determine an enhanced sequence for processing. Suggested operator actions may be displayed that might further enhance the scheduling of the altered aggregated event topology together with an automatic operator need prompt (608) that may inform an operator of a need for a particular action in order to accomplish the desired tasks. Reversibility to proposed changes may be made available so that an operator may avoid having to activate proposed changes if they cause a processing result that is not acceptable.

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A			
A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : G01N 21/00, 1/30, 33/48			
US CL : 422/67; 435/40.5, 286.1, 287.3, 288.7; 702/19			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 422/67; 435/40.5, 286.1, 287.3, 288.7; 702/19			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Characteristics have been considered to be a second and the second			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
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C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	propriate, of the relevant passages	Relevant to claim No.
A	US 5,839,091 A (RHETT et al.) 17 November 1998	see abstract	1-158
••	Ob 5,055,051 /1 (Idazi i di m.) 1/ November 1550	, see abstract.	1-136
	6 252 951 A (CORPT AND 1) 05 No 1 0000		
A	6,352,861 A (COPELAND et al.) 05 Marh 2002, se	e "Sumary of Invention" section.	1-158
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